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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/754,762 | 01/04/2001 | Jimmy Randolph Lewis | 29488/36815 | 3783 |
| 4743 7590 10/07/2004 | | EXAMINER | | |
| MARSHALL, GERSTEIN & BORUN LLP | | | SHAPIRO, JEFFERY A | |
| 6300 SEARS TOWER 233 S. WACKER DRIVE | | | ART UNIT | PAPER NUMBER |
| CHICAGO, IL 60606 | | | 3653 | |
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Please find below and/or attached an Office communication concerning this application or proceeding.

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| 1)⊠ Responsive to communication(s) filed on 27 May 2004. 2a)□ This action is FINAL. 2b)⊠ This action is non-final. 3]□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)☑ Claim(s) 7.8.10-19 and 21-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5)□ Claim(s) is/are allowed. 6)☑ Claim(s) 7.8.10-19 and 21-28 is/are rejected. 7)□ Claim(s) is/are objected to. 8)□ Claim(s) is/are objected to. 8)□ Claim(s) are subject to restriction and/or election requirement. Application Papers 9)□ The specification is objected to by the Examiner. 10)□ The drawing(s) filed on is/are: a)□ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12)□ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * ○□ None of: 1.□ Certified copies of the priority documents have been received in Application No 3.□ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. | | | Application No. | Applicant(s) | | | | |
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| Juffrey A. Shapiro 3853 | | | 09/754,762 | LEWIS ET AL. | | | | |
| The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. If the period for reply specified above is less shouthing (30) days, a reply within the stablatory minimum of birty (30) days, will be considered timely. If the period for reply specified above is less shouthing (30) days and eligible place of the mailing date of this communication. Finally within the soft or controlled production of the mailing date of this communication. Finally within the soft or controlled production of the communication. The MAILING DATE of this communication, the mailing date of this communication. The Mailing Date of the communication of the mailing date of this communication, even if may feet only feet only the same and a second date of the communication. The Mailing Date of the mailing date of this communication, even if may feet only feet onl | | | Examiner | Art Unit | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of town may be available under the provisions of 37 CFR 1.73(e). In no event, however, may a reply be limitly filed Extension of town may be available under the provisions of 37 CFR 1.73(e). In no event, however, may a reply be limitly filed Extensions of town may be available under the provisions of 37 CFR 1.73(e). In no event, however, may a reply be limitly filed Extension of trong hy specified above, he maximum statutory partly within the stabilizity minimum of birty (30) days will be considered timely. EXTENSION of the specified above, he maximum statutory paid will apply and will expire SIX (6) MONTH'S from the malting date of this communication, the maximum statutory and the specified state of this communication, and the provision of the malting date of this communication, swent Primary flex, may return a supplication is provided to the malting date of this communication, swent Primary flex, may return a supplication is provided to the malting date of this communication, swent Primary flex, may return a supplication is provided to the malting date of this communication, swent Primary flex, may return a supplication is provided to the malting date of this communication, swent Primary flex, may return a supplication is provided to the malting date of this communication, swent Primary flex, may return a supplication is provided to primary and supplication is one of the malting date of this communication, swent Primary flex, may return a supplication is one of the primary 2004. [2] Claim(s) | | | | | | | | |
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Application/Control Number: 09/754,762 Page 2

Art Unit: 3653

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/27/04 has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 7, 8, 10-19 and 21-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Spindler et al (US 5,509,538) in view of Lipps (US 6,760,643 B2), and further in view of Wegrzyn (US 5,685,098). Spindler discloses the following.

As described in Claims 7 and 18

- a. a plurality of lights (46, for example), each light associated with a bin (note the designation of "work zones" represents cartons—see col. 9, lines 42-46);
- b. at least one number display (38) for showing a desired quantity of each stock item:

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c. at least one container display (42 or 44) for showing a unique container identifier associated with a selected container into which each stock item is to be placed (see col. 11, lines 25-30, noting that the LCD display (44) includes a sku number);

- d. a direction display (See figure 2, element (40));
- e. each container is assigned a unique identifier (see col. 5, lines 54-57);
- f. a computer (32) operably *coupled* to the lights, the at least one number display, and at least one container display, and the direction display;
- g. wherein the computer (32) receives the orders for the stock items and assigns a selected container to each stock item;
- h. directs the at least one number display to show the desired quantity of each stock item (see put display (42)),
- i. directs the at least one container display to show the unique container identifier associated with the selected container assigned to each stock item (again, not the sku, etc.);
- j. and illuminates the light for the bin associated with the specific stock item, so that the stock worker is directed to transfer each stock item from the associated bin to the assigned container (note also rack number (12a);
- k. a conveyor (34) positioned near the bins;

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I. and operates the direction display to indicate a direction of a storage bin associated with a subsequent order; (Note that the direction display (40) of Spindler appears to identify the direction in which a storage bin is located, and that a the order identified on the display (40) can be construed to be a subsequent order since it has not been picked yet.

Once it has been picked, the display will change to another order, and the bin location and direction would be expected to reflect the information for this order.)

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As described in Claims 8 and 19;

m. a plurality of central indicators, in which each central indicator incorporates a number display, a direction display and a container display, and wherein each central indicator is associated with a section of the bins (note the local computer (25);

As described in Claims 10 and 21;

n. each central indicator further comprises a multi-purpose exception button operably connected to the computer (note the buttons (adjust, split and cancel, among others, on the display of figure 2);

As described in Claims 11 and 22;

o. the lights are incorporated into bin indicators associated with the bins, each bin indicator further comprising a quitting switch operably connected to the computer and adapted to generate a pick complete

signal (note that the various portions of the display are provided with different color illumination, see col. 7, lines 1-16);

As described in Claims 12 and 23;

p. integrated bin indicators associated with the bins, each integrated bin indicator including the number display, the container display, and the light (see figure 2);

As described in Claim 13 and 24;

q. each integrated bin indicator further comprising a *direction* display operably connected to the computer, the computer controlling each *direction* display to *indicate a direction* of a storage bin associated with a subsequent order (note prior discussion, above);

As described in Claims 14 and 25;

r. each integrated bin indicator further comprises a quitting switch operably connected to the computer and adapted to generate a pick complete signal (note the "cancel" button on panel (36));

As described in Claims 15 and 26;

s. each integrated bin indicator further comprises a multi-purpose exception button operably connected to the computer (see discussion, above);

As described in Claims 16 and 27;

t. several stock workers are assigned to primary bin sections, and in which the computer directs each stock worker to pick products from bins

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with the assigned primary bin section (note that multiple workers are assigned to various areas, as illustrated in the figures);

As described in Claims 17 and 28;

u. the computer may override the assigned primary bin section to direct stock workers to heavy pick areas (note that the "split" function allows workers to split batches up);

Spindler does not explicitly disclose, but Lipps discloses the following.

As described in Claims 7, 8, 13, 18, 19 and 24;

v. the details of a stock location indicator consisting of a light (46) associated with a storage bin,

Spindler does not explicitly disclose, but Wegrzyn discloses the following.

As described in Claims 7, 8, 13, 18, 19 and 24.

w. the details of a directional indicator.

Spindler, Lipps and Wegrzyn are analogous art because Spindler illustrates a directional display (40) with an arrow, Lipps discloses a directional light next to a bin, and Wegrzyn discloses in detail a sign with directional arrows on it to indicate direction.

At the time of the invention, it would have been obvious to one of ordinary skill in the art to have added a directional indicator next to information such as a bin location so

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as to readily convey directional information related to the text information displayed on Spindler's display (36).

The suggestion/motivation would have been to incorporate a "directional indicator that may be modified each time its environment or location necessitates such a change." See Wegrzyn, col. 1, lines 10-17. See also col. 2, lines 64-67 and col. 3, lines 1-2 and 17-20.

With further regard to both Lipps and Wegrzyn, note that the display (36) of Spindler includes a pick location in a numerical form and with an apparent directional arrow in the form of a carrot-like character. Note also Spindler's bicolored or multicolored pick zone indicator (46), mentioned at col. 7, lines 8-11, which further communicates location.

One ordinarily skilled in the art would recognize that it would be advantageous to provide a light at each bin, said light being lit to indicate the appropriate bin or bins from which to pick or put items. Such a recognition would be taught by Lipps' indicators being placed in such a manner. Further, such a recognition would also be taught by Wegrzyn's directional signals, which illustrate direction indicated not only by a lit indicator or a numerical location identifier, but a light in the form of an arrow indicating the direction in which to go to find a particular item. In the case of Wegrzyn, the item is an exit. However, one ordinarily skilled in the art would recognize that such a directional light indicator would be useful in Spindler's apparatus, especially since Spindler's system displays the numerical location. Also, official notice is taken that human understanding of information is helped presentation in multi-modal fashion, such

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as presenting location information as a numerical location, with a directional light indicator, as well as a light indicator next to the appropriate bin.

Therefore, it would have been obvious to combine Spindler, Lipps and Wegrzyn to obtain Applicant's system as described in Claims 7, 8, 10-19 and 21-28.

Response to Arguments

- 4. Applicant's arguments filed 5/27/04 have been fully considered but they are not persuasive. See arguments directly above.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey A. Shapiro whose telephone number is (703)308-3423. The examiner can normally be reached on Monday-Friday, 9:00 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald P. Walsh can be reached on (703)306-4173. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Jeffrey A. Shapiro Examiner

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